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Neochlorogenic acid

Catalog No: tcsc3770

Available Sizes

Size: 5mg

Size: 10mg

Specifications

CAS No:
906-33-2

Formula:
$C_{16}H_{18}O_9$

Pathway:
Immunology/Inflammation;Immunology/Inflammation;Apoptosis;NF-κB

Target:
Interleukin Related;COX;TNF Receptor;NF-κB

Purity / Grade:
>98%

Solubility:
DMSO : 11 mg/mL (31.05 mM; Need ultrasonic and warming)

Alternative Names:
trans-5-O-Caffeoylquinic acid

Observed Molecular Weight:
354.31

Product Description

Neochlorogenic acid is a natural polyphenolic compound found in dried fruits and other plants. Neochlorogenic acid inhibits the production of **TNF-α** and **IL-1β**. Neochlorogenic acid suppresses **iNOS and COX-2** protein expression. Neochlorogenic acid also

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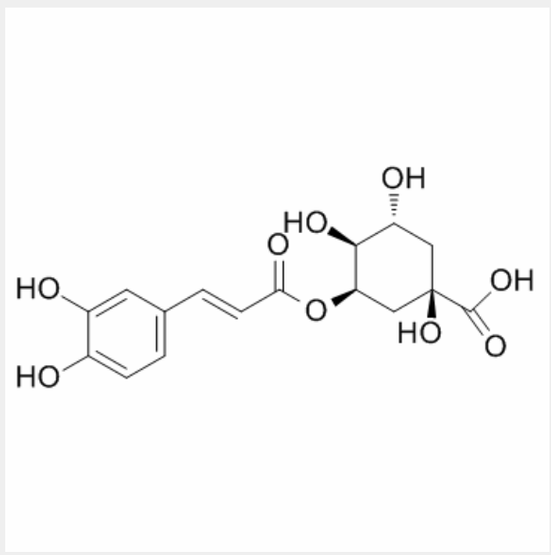
inhibits phosphorylated **NF-κB p65** and **p38 MAPK** activation.

IC50 & Target: NF-κB p65, p38 MAPK, IL-1β, TNF-α, COX-2, iNOS[1]

In Vitro: Neochlorogenic acid (NCA) shows a reduction of lipopolysaccharide (LPS)-induced NO production by suppressing iNOS and COX-2 protein expression and production of pro-inflammatory cytokines, such as TNF-α and IL-1β, in BV2 microglia cells.

In addition, phosphorylated p38 MAPK and NF-κB p65 are also inhibited by Neochlorogenic acid in activated microglia. iNOS and COX-2 levels are increased in LPS-induced BV2 cells, but this increase is significantly inhibited after treatment with 50 and 100 μM Neochlorogenic acid[1].



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